

(to demonstrate range of agencies requirements)

MINIMUM TESTING FREQUENCIES

03/01/21 (range of agencies)

Mainline Pipe (initial & final backfill)

Utility Type	Test Area	Minimum Testing Frequency	MAG Section
Sewer, Water (various)	Initial Backfill	Ranges from: (1) test per 300' to (1) test per 660' ; some agencies also require (1) test between each manhole.	601; 702
Sewer, Water (various)	Final Backfill	Ranges from: (1) test per lift every 300' to (1) test per lift every 650' ; also ranges from (1) test per 2' depth every 250' to (1) test per 2' depth every 660' . Some agencies also require backfill testing between each manhole.	601
Water Valves	Final Backfill	50% of valves or valve groups (few agencies require)	601
Storm Drain	Springline, Haunching	(1) test per 500' (for agencies that require springline/haunch testing, required for various pipe diameters).	601; 618; 702
Storm Drain	Initial Backfill	Ranges from: (1) test per 400' to (1) test per 650'	601; 618; 702
Storm Drain	Final Backfill	Ranges from: (1) test per lift every 400' to (1) test per lift every 650' ; also (1) test per 2' of depth every 250' .	601; 618

Services, Laterals, Crossings

Utility Type	Test Area	Minimum Testing Frequency	MAG Section
Water, Sewer Services	Final Backfill	Ranges from: 10% of total to 100% of total tested ; some agencies require (1) test per lift per 500' (cumulative footage).	601
Hydrant Laterals	Initial Backfill	Ranges from: 25% to 100% of laterals tested.	601; 702
Hydrants, Hydrant Laterals	Final Backfill	Ranges from: 25% to 100% of hydrants/hydrant laterals tested ; some agencies require (1) test per 500' of backfill	601
Storm Drain Laterals	Initial Backfill	Overall the agencies that require laterals to be tested require 100% to be tested ; some agencies require (1) test per 500'	601; 718
Storm Drain Laterals	Final Backfill	Overall agencies require (1) test per crossing, or 100% to be tested ; some agencies require (1) test per 500' .	601; 718
Irrigation, Dry Utility Crossings	Final Backfill	Ranges from: 33% to 100% of crossings tested ; some agencies call for (1) test per lane ; some call for (1) test per lift per 500' .	601

Structures

Utility Type	Test Area	Minimum Testing Frequency	MAG Section
Major (Manholes)	Subgrade/Foundation	Ranges from: 33% to 100% of MH bases tested (many agencies don't require, so some testing labs probe for firmness).	301; 601; Dtls 420, 421
Major (Manholes)	Backfill	Overall agencies require 100% of MH backfill to be tested ; testing thicknesses vary from 1' to 2' to 4' ; most note alternate sides and elevations.	206; 505; 601
Minor (Catch Basins, Headwalls)	Subgrade/Foundation	Ranges from 33% to 100% to be tested (few agencies require)	301; 601
Minor (Catch Basins, Headwalls)	Backfill	Ranges from 33% to 100% to be tested ; testing thicknesses vary from 8" to 2' .	206; 505; 601

